

DIVISION 2 EARTHWORK

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

The Contractor shall clear, grub, and clean up those areas staked or described in the Special Provisions. This Work includes protecting from harm all trees, bushes, shrubs, or other objects selected to remain.

“Clearing” means removing and disposing of all unwanted material from the surface, such as trees, brush, down timber, or other natural material.

“Grubbing” means removing and disposing of all unwanted vegetative matter from underground, such as sod, stumps, roots, buried logs, or other debris.

“Roadside cleanup”, whether inside or outside the staked area, means Work done to give the roadside an attractive, finished appearance.

“Debris” means all unusable natural material produced by clearing, grubbing, or roadside cleanup.

2-01.2 Disposal of Usable Material and Debris

When possible, the Contractor should sell all usable material such as timber, chips, or firewood produced by clearing, grubbing, or roadside cleanup. The Contractor shall not allow the public to fell trees.

The Contractor shall meet all requirements of state, county, and municipal regulations regarding health, safety, and public welfare in the disposal of all debris.

The Contractor shall dispose of all debris by one or more of the three disposal methods described below.

Disposal of debris in a Contractor-provided waste site shall meet the requirements of [Section 2-03.3\(7\)C](#).

2-01.2(1) Disposal Method No. 1 — Open Burning

The open burning of residue resulting from land clearing is restricted by Chapter 173-425 of the Washington Administrative Code. No commercial open burning shall be conducted without authorization from the Washington State Department of Ecology or the appropriate local air pollution control authority.

Open burning, when permitted, shall be done in a high stack that meets these requirements:

1. Diameter — at least 20-feet.
2. Height — 1-foot or more for every foot of diameter.
3. Content — clean debris, with stumps free of excess dirt, stacked in well-ventilated piles.
4. Stacking equipment — debris must be stacked and the fire maintained by clamshell or similar equipment, not by bulldozer or front-end loader.
5. Number of stacks — no more than one fire every 200-yards may be burning at one time.
6. Additional debris shall not be added to a burning stack.

2-01.2(2) Disposal Method No. 2 — Waste Site

Debris shall be hauled to a waste site obtained and provided by the Contractor in accordance with [Section 2-03.3\(7\)C](#).

2-01.2(3) Disposal Method No. 3 — Chipping

Chipping shall be done by machines that can grind debris into wood chips. Wood chips to be sold may be any size. Unsold chips shall be no larger than 6-square inches and no thicker than ½-inch. The Contractor shall spread unsold chips evenly on the project site and tractor-walk them into the ground.

Stumps shall be hauled to a waste site obtained by the Contractor.

2-01.3 Construction Requirements**2-01.3(1) Clearing**

The Contractor shall:

1. Fell trees only within the area to be cleared.
2. Close-cut parallel to the slope of the ground all stumps to be left in the cleared area outside the slope stakes.
3. Close cut all stumps that will be buried by fills 5-feet or less in depth.
4. Follow these requirements for all stumps that will be buried by fills deeper than 5-feet:
 - a. Close-cut stumps under 18-inches in diameter.
 - b. Trim stumps that exceed 18-inches in diameter to no more than 12-inches above original ground level.
5. Leave standing any trees or native growth indicated by the Engineer.
6. Trim all trees to be left standing to the height specified by the Engineer, neatly cutting all limbs close to the tree trunk.
7. Thin clumps of native growth as the Engineer may direct.
8. Protect, by fencing if necessary, all trees or native growth from any damage caused by construction operations.

2-01.3(2) Grubbing

The Contractor shall:

1. Grub deep enough to remove all stumps, large roots, buried logs, and other vegetative material.
2. Grub all areas:
 - a. Indicated by the Engineer or by the Special Provisions.
 - b. To be excavated, including area staked for slope treatment.
 - c. Where subdrainage trenches will be dug, unsuitable material removed, or Structures built.
 - d. In which hillsides or existing embankments will be terraced as described in [Section 2-03.3\(14\)](#).
 - e. Upon which embankments will be placed, except where the Subgrade or slope elevation exceeds 5-feet above the natural ground surface, the Contractor may close cut all trees, stumps, and large roots less than 18-inches in diameter.

A Contract may include grubbing without mentioning clearing or roadside cleanup. In that case, the Contractor shall remove and dispose of all upturned stumps and roots of windfalls that lie within the cleared area of the Right of Way, even though they are outside the area staked for grubbing. Such Work shall be incidental to other Work covered by the Contract.

2-01.3(3) Vacant**2-01.3(4) Roadside Cleanup**

Roadside cleanup, as ordered by the Engineer, consists of Work not otherwise provided for in the Contract. Such Work may include:

1. Removing trees, snags, down timber, upturned stumps, large rocks and boulders, and other unsightly matter outside the areas staked for clearing or grubbing.
2. Thinning trees or brush.
3. Filling holes, and smoothing and contouring the ground.
4. Shaping the ends of cuts and fills to fit adjacent terrain and to enhance the area's appearance.
5. Obliterating abandoned roads and reshaping the areas to blend naturally with surroundings.

Methods and equipment used in roadside cleanup shall be approved by the Engineer.

2-01.4 Measurement

No unit of measurement shall apply to the lump sum price for clearing and grubbing.

When clearing and grubbing is paid per acre, the following areas will be excluded from measurement:

1. Any area along an existing Highway that requires no Work.
2. Any gap that requires no Work, provided the gap is at least 50-feet long when measured parallel to the center line and contains at least 2,500-square feet.

Isolated areas of less than 2,500-square feet that require Work lying between areas excluded from measurement will be counted as having 2,500-square feet. If these isolated areas occur intermittently, the final measurement shall not exceed the total area containing the several isolated areas when measured as continuous.

Clearing and grubbing may be combined in the Proposal. If the Proposal calls for such combined Work to be measured "per acre," the measurement methods described above will apply. If the Proposal designates such combined Work as "lump sum," the Contracting Agency will not base payment on any unit of measurement.

2-01.5 Payment

Payment will be made in accordance with [Section 1-04.1](#), for the following Bid items when they are included in the Proposal:

"Clearing and Grubbing," per acre or lump sum.

The unit Contract price per acre or lump sum for "Clearing and Grubbing" shall be full pay for all Work described in this section except "Roadside Cleanup."

"Roadside Cleanup," by force account as provided in [Section 1-09.6](#).

To provide a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the Contractor's total Bid.